

CLAIMS

I claim:

Sub A15

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1. An apparatus, comprising:

a coffeemaker;

a clock with a plurality of timers;

a controller with a communication path to the clock;

a network interface connected to the communication path in receipt of a plurality of timer settings that are set in the clock by the controller that controls the coffeemaker.

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2. The apparatus of claim 1, wherein the controller forms a message that contains a state of the coffeemaker.

3. The apparatus of claim 2, wherein the state of the coffeemaker is a not ready state upon the plurality of timer settings being set.

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4. The apparatus of claim 3, further comprising:

a button that when selected results in the state of the coffeemaker being in a ready to brew state.

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5. The apparatus of claim 4, wherein a brew timer is set upon a time kept by the clock matching one of the plurality of timer settings and results in the state of the coffeemaker apparatus being in a brewing state.

6. The apparatus of claim 5, further comprising:

a warming plate that is turned off upon the expiration of a warming timer that is set upon the expiration of the brew timer and results in the state of the coffeemaker being a coffee ready state.

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7. The apparatus of claim 1, further comprising:

a memory that stores the plurality of timer settings.

8. The apparatus of claim 1, wherein a time synchronization message having

10 a time that is received by the network interface and results in the clock being set to the time in the time synchronization message.

9. ~~9.10.~~ The apparatus of claim 2, further comprising:

a display in communication with the clock over the communication path that

15 displays a time on the display.

10. ~~10.~~ The apparatus of claim 2, further comprising:

a display in communication with the controller over the communication path that displays the state of the coffeemaker.

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~~11~~¹². A method, comprising:

receiving at a coffeemaker apparatus with a network interface a plurality of timer settings at the network interface; and
setting a clock with the plurality of timer settings.

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~~12~~¹³. The method of claim ~~12~~¹⁷, further comprising:

setting a state of the coffeemaker apparatus;
formatting a state message containing the state; and
transmitting the state message from the network interface for reception by another

10 device.

~~13~~¹⁴. The method of claim ~~13~~¹², wherein setting the state further includes:

setting the state of the coffeemaker apparatus to a not ready state upon the setting of the clock with the plurality of timer settings.

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~~14~~¹⁵. The method of claim ~~14~~¹², wherein setting the state further includes:

signaling from an input device on the coffeemaker apparatus; and
setting the state of the coffeemaker apparatus to a ready to brew state in response to the signaling of the input device.

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15 16. The method of claim 13, wherein setting the state further includes:
identifying that the clock has reached one of the plurality of timer settings;
initializing a brew timer to a predetermined time value; and
setting the state of the coffeemaker apparatus to a brewing state.

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16 17. The method of claim 16, wherein setting the state further includes:
identifying that brew timer has expired;
setting a warming timer in response to the brew timer expiring; and
changing the state of coffeemaker apparatus to a coffee ready state.

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17 18. The method of claim ¹⁶~~17~~, wherein setting the state further includes:
identifying that the warming timer has expired;
changing the state of the coffeemaker apparatus to a not ready state in response to
the expiration of the warming timer.

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18 19. The method of claim ¹⁶~~17~~, further including:
deactivating a warming plate in response to expiration of the warming timer.

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19 20. The method of claim ¹¹~~12~~, further comprising:
displaying on a display a time from the clock.

20 21. The method of claim ¹¹~~12~~, further comprising:
displaying on a display a state of the coffeemaker appliance.

22. The method of claim ¹¹~~12~~, further comprising:

receiving a time synchronization message at the network interface of the
coffeemaker appliance; and

5 setting the clock in response to the time synchronization message.

²²~~23~~. An apparatus, comprising:

means for receiving at a coffeemaker apparatus a plurality of timer settings at the
network interface; and

10 setting a clock with the plurality of timer settings.

²²~~23~~ 24. The apparatus of claim ²²~~23~~, further comprising:

means for setting a state of the coffeemaker apparatus;

means for formatting a state message containing the state for reception by another
15 device; and

means for transmitting the state message.

²³~~24~~ 25. The apparatus of claim ²³~~24~~, wherein the means for setting the state further
includes:

20 means for setting the state of the coffeemaker apparatus to a not ready state upon
the setting of the clock with the plurality of timer settings.

25 26. The apparatus of claim ²³24, wherein the means for setting the state further includes:

means for signaling from an input device on the coffeemaker apparatus; and

means for setting the state of the coffeemaker apparatus to a ready to brew state in
5 response to the input device.

26 27. The apparatus of claim ²³24, wherein the means for setting the state further includes:

10 means for identifying that the clock has reached one of the plurality of timer settings;

means for initializing a brew timer to a predetermined time value; and

means for setting the state of the coffeemaker apparatus to a brewing state.

27 28. The apparatus of claim ²⁶27, wherein the means for setting the state further
15 includes the steps of:

means for identifying that brew timer has expired;

means for setting a warming timer in response to the brew timer expiring; and

means for changing the state of coffeemaker apparatus to a coffee ready state.

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sub A3 } 28 29. The apparatus of claim ²⁷28, wherein the means for setting the state further
includes the steps of:

means for identifying that the warming timer has expired;

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means for changing the state of the coffeemaker apparatus to a not ready state in response to the expiration of the warming timer.

29 30. The apparatus of claim ²⁷28, further including:

5 means for deactivating a warming plate in response to expiration of the warming timer.

30 31. The apparatus of claim ²²23, further comprising:

means for displaying on a display a time from the clock.

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31 32. The apparatus of claim ²²23, further comprising:

means for displaying on a display a state of the coffeemaker appliance.

32 33. The apparatus of claim ²²23, further comprising:

15 means for receiving a time synchronization message at the network interface of the coffeemaker appliance; and

means for setting the clock in response to the time synchronization message.

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~~33~~ 34. A machine-readable signal-bearing medium containing instructions that cause a system to perform a method for operating a coffeemaker apparatus, the method comprising:

- 5 receiving at a coffeemaker apparatus with a network interface a plurality of timer settings at the network interface; and
- setting a clock with the plurality of timer settings.

- 10 ~~34~~ ~~35~~. The machine-readable signal-bearing medium of claim ~~34~~³³, further comprising:
- setting a state of the coffeemaker apparatus;
- formatting a state message containing the state; and
- transmitting the state message from the network interface for reception by another device.

- 15 ~~35~~ 36. The machine-readable signal-bearing medium of claim ~~35~~³⁴, wherein setting the state further includes:

- setting the state of the coffeemaker apparatus to a not ready state upon the setting of the clock with the plurality of timer settings.

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36 37. The machine-readable signal-bearing medium of claim ³⁴~~35~~, wherein setting
the state further includes:

signaling from an input device on the coffeemaker apparatus; and
setting the state of the coffeemaker apparatus to a ready to brew state in response
5 to the signaling of the input device.

37 ~~38~~. The machine-readable signal-bearing medium of claim ³⁴~~35~~, wherein setting
the state further includes:

identifying that the clock has reached one of the plurality of timer settings;
10 initializing a brew timer to a predetermined time value; and
setting the state of the coffeemaker apparatus to a brewing state.

38 ~~39~~. The machine-readable signal-bearing medium of claim ³⁷~~38~~, wherein setting
the state further includes:

15 identifying that brew timer has expired;
setting a warming timer in response to the brew timer expiring; and
changing the state of coffeemaker apparatus to a coffee ready state.

39 40. The machine-readable signal-bearing medium of claim ³⁸~~39~~, wherein setting
20 the state further includes:

identifying that the warming timer has expired; and
changing the state of the coffeemaker apparatus to a not ready state in response to
the expiration of the warming timer.

40 41. The machine-readable signal-bearing medium of claim ⁴⁰/~~39~~, further including:

deactivating a warming plate in response to expiration of the warming timer.

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42. The machine-readable signal-bearing medium of claim ³³/~~34~~, further comprising:

displaying on a display a time from the clock.

10 43 44. The machine-readable signal-bearing medium of claim ³³/~~34~~, further comprising:

displaying on a display a state of the coffeemaker appliance.

15 43- 44. The machine-readable signal-bearing medium of claim ³³/~~34~~, further comprising:

receiving a time synchronization message at the network interface of the coffeemaker appliance; and

setting the clock in response to the time synchronization message.